



U.S. General Services Administration GSA Schedule 899 for Environmental Services

Contract Number: GS-10F-0013N
Contract Period: 10/4/2012 through 10/3/2017

October 2012



Customer Information

1a	Awarded Special Item Numbers (SINs) SIN 899-1 (RC) Environmental Consulting Services SIN 899-7 (RC) Geographic Information Systems (GIS) Services SIN 899-8 (RC) Remediation and Reclamation Services	13	Ordering Address Parametrix, Inc. 1002 15th Street SW, Suite 220 Auburn, WA 98001 Telephone: (253) 269-1330 Fax: (253) 269-6899 Attention: Janice Walden jwalden@parametrix.com
1b	Lowest Price Model Number and Lowest Unit Price Not applicable	14	Payment Address Parametrix, Inc. 1002 15th Street SW, Suite 220 Auburn, WA 98001
1c	Hourly Rates See table on page 15 with approved labor rates	15	Warranty Provision Contractors standard commercial warranty
2	Maximum Order \$1,000,000.00 (Please contact us for orders over \$1,000,000.00)	16	Export Packing Charges Not applicable
3	Minimum Order \$100.00	17	Terms and Conditions of Government Purchase Card Acceptance Contact Parametrix
4	Geographic Coverage Domestic and overseas	18	Terms and Conditions of Rental, Maintenance, and Repair Not applicable
5	Points of Production Please see our locations on page 3.	19	Terms and Conditions of Installation Not applicable
6	Discount from List Prices or Statement of Net Price Government awarded (Net - discount included) prices (see page 15)	20	Terms and Conditions of Repair Parts Not applicable
7	Quantity Discounts None offered	21	List of Service and Distribution Points Not applicable
8	Prompt Payment Terms 30 days	22	List of Participating Dealers Not applicable
9a-b	Government Purchase Cards are accepted at or below the micro-purchase threshold. Government Purchase Cards are accepted over \$2,500.00 micro-purchase threshold.	23	Preventive Maintenance Not applicable
10	Foreign Items None	24a	Special Attributes Not applicable
11a-d	Time of Delivery Determined with ordering agency for each Task Order	24b	EIT standards Can be found at http://www.section508.gov/
12	F.O.B. Points Determined with ordering agency for each Task Order	25	Data Universal Number System (DUNS) 069569168
		26	CCR Database Parametrix is registered in the Central Contractor Registration (CCR) database.

How to Access the Parametrix Environmental Services Contract

The general steps for ordering services from the Parametrix GSA Environmental Services Contract are:

Develop a Statement of Work

Develop a statement of work for one or more of the services (SINs) provided by Parametrix under this contract. This statement should include, at a minimum, the work to be performed, location of the work, the period of performance, a schedule of deliverables, applicable standards, and any special requirements needed to complete the work.

Develop a Cost Estimate

Develop a government cost estimate using your agency's standard format.

Review Available Information

You can review information on potential contractors who can support your needs under their existing GSA contract at www.gsaadvantage.gov.

Request a Quote

Issue a request for quote, which may include both technical and cost requirements, to at least three firms who hold the GSA Environmental Services Contract and have the proper qualifications for your task. The request should include the proposed scope of work and the time by which a response is required back by your agency.

Determine Best Value

Upon receipt of the quotes, determine which provides the best value for your requirements. In determining best value, you may take into consideration not only costs but also other relevant information such as technical expertise, special qualifications, and past performance.

Issue a Task Order

Issue a task order to the firm determined to provide the best value and award the work under their existing GSA Environmental Services contract.

On-line access to contract ordering information, terms and conditions, up-to-date pricing, and the option to create an electronic delivery order are available through GSA Advantage!™, a menu-driven database system: <http://www.gsaadvantage.gov>

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About Parametrix

Parametrix helps our clients deliver some of their most significant projects. Whether it's improving infrastructure, restoring natural habitat, or designing a vision for the future, people depend on us for innovative ideas — engineering, planning, and environmental solutions that make a positive, lasting difference. From offices throughout the western United States, we provide multidisciplinary services worldwide in transportation, environmental planning and compliance, water resources, and community building.

Parametrix is an award-winning company, highly regarded both as an employer and as a consultant. Parametrix is regularly named in *Engineering News Record's* Top 500 Design Firms and Top 200 Environmental Firms, and recognized regionally as a top firm to work for. Our innovative project solutions are regularly recognized by professional associations such as the American Council of Engineering Companies, American Public Works Association, National Association of Environmental Professionals, and American Planning Association.

As a 100-percent employee-owned firm, our people have a vested interest in strong performance and exceptional client service. Individually and as a team, we are committed to providing high quality, cost-effective solutions that enable our clients to make informed decisions. Our firm-wide staff of over 350 professionals includes engineers, planners, scientists, archaeologists, environmental specialists, GIS and CADD technicians, surveyors, and landscape architects.

In addition to many task orders completed through our GSA Environmental Services schedule, Parametrix has completed several on-call and IDIQ contracts with various federal agencies, often resulting in excellent performance ratings.

Parametrix's federal agency clients include:

- Bonneville Power Administration
- Bureau of Land Management (BLM)
- Bureau of Reclamation (BoR)
- Federal Aviation Administration
- Fisheries Assistance Office
- General Services Administration
- National Oceanic & Atmospheric Administration (NOAA)
 - National Marine Fisheries Service (NMFS)
 - National Marine Mammal Lab
 - Sea Grant
 - Marine Sanctuary
- National Parks Service
- Naval Facilities Engineering Command
- United States Air Force
- United States Army
- United States Army Corps of Engineers (USACE)
- United States Department of Commerce
- United States Department of the Interior
 - Minerals Management Service
 - Bureau of Ocean Energy Management, Regulation and Enforcement (BOEMRE)
- United States Department of Justice
- United States Environmental Protection Agency (EPA)
- United States Fish and Wildlife Service (USFWS)
- United States Forest Service (USFS)
- United States Navy
- United States Postal Service
- Veterans Administration Hospital



SIN 899-1 (RC) Environmental Consulting Services

Parametrix helps our clients achieve outstanding environmental performance and cost-effective, on-time project delivery. We work with our clients to ensure they understand and comply with regulations, and we partner with regulatory agencies to streamline the environmental process. Our innovative, resourceful solutions optimize resource protection and economic development. These include sustainability planning and developing strategies for climate change adaptation, and creating science-based solutions to measure and account for the benefits that nature provides.

Planning & Documentation

Throughout our 40-plus years of experience, Parametrix has prepared more than 200 environmental impact statements (EIS); over 500 environmental assessments (EA); and thousands of biological assessments (BA), biological evaluations (BE), and cultural resource investigations. We routinely work with federal agencies including BLM, USFS, USFWS, EPA, Navy, and USACE; tribes and pueblos; and many state and local agencies. Our environmental documents ensure accountability, improve decision-making, engage the public, and protect critical elements of the natural and built environment.

Compliance & Permitting

Parametrix has successfully planned and obtained permits and determined compliance with regulations for the simplest to the most complex infrastructure, land management, and development projects. Our proven approach involves working with project planners, scientists, and engineers early in the development process to develop concepts that avoid, minimize, and/or mitigate environmental impacts and meet applicable laws and regulations.

Archaeological/Cultural Resources

Parametrix's cultural resources team of archaeologists, historians, and cultural anthropologists has completed hundreds of cultural resource investigations for a diverse group of clients including government agencies, tribes, utilities, and private clients. Comprehensive services include Section 106 compliance; archaeological survey, testing, and data recovery; historic built environment surveys, archival research, and HABS/HAER/HALS documentation; and ethnography and oral history.

Services

- Planning and documentation services for environmental initiatives and/or hazardous materials
- Sustainable performance measure development
- EA and EIS preparation under NEPA
- Endangered species, wetland, watershed, and other natural resource management plans
- Archaeological and/or cultural resource management plans
- Environmental program and project management
- Environmental regulation development
- Economic, technical, and/or risk analysis
- Other environmentally related studies and/or consultations
- Compliance services
- Permitting
- Spill prevention/control and countermeasure plans
- Pollution prevention surveys
- Community Right-to-Know Act reporting
- Advisory services for hazardous material spills
- Material safety data sheets
- Biological data sheets
- Environmental regulations and policy/procedure updates
- Waste management consulting
- Feasibility studies and risk analyses
- RCRA/CERCLA site investigations
- Hazardous/non-hazardous exposure assessments
- Waste characterization and source reduction studies
- Waste tracking or handling systems
- Waste management plans/surveys
- Waste minimization/pollution prevention

Project Examples

Middle Rio Grande Restoration Program – Albuquerque, NM

The USACE is designing and implementing a \$25 million ecosystem restoration program along a 22-mile segment of the Middle Rio Grande. This portion of the Rio Grande has degraded considerably from its natural condition due to flood control and development projects. Dams and river channelization currently prevent the river from inundating the floodplain and groundwater levels have dropped. As a result, native riparian cottonwoods and willows are being replaced by a variety of non-native forest species. Wildlife species have declined or become extinct. The Albuquerque District USACE is leading efforts to halt further ecosystem degradation, and restore ecosystem functions where possible. Parametrix has designed, implemented and monitored the habitat restoration efforts since 2004. In recent years, we have focused primarily on improving riparian-wetland restoration design through robust research into relationships between willow growth parameters, and soil and groundwater attributes. Results from this research are being directly applied to the design of more than 20 willow wetlands spread across approximately 1,500 acres in the Albuquerque floodplain. Our current support to the USACE is to design and implement effectiveness



monitoring protocols for the restoration program. We are collaborating with the USACE and other federal and state agencies in developing habitat support metrics for two federally endangered species: the Southwestern Willow Flycatcher and the Rio Grande Silvery Minnow. The habitat support metrics are incorporated into our EcoMetrix tool, allowing quantitative improvements in species habitat to be evaluated before and after restoration. EcoMetrix will also be used to monitor habitat support improvements over time for other species, including habitat for songbirds, raptors, small mammals, and amphibians.

Vegetation Monitoring at Lower Colorado River Sites – CA and AZ

Parametrix secured a 5-year monitoring project with the BoR Lower Colorado River Region to collect and manage vegetation data from long-term monitoring plots along the Lower Colorado River. This data collection is part of a comprehensive monitoring study to evaluate success of riparian restoration projects implemented by the Lower Colorado River Multi-Species Conservation Program (MSCP). The MSCP is a multi-agency effort to conserve and work towards the recovery of endangered species, and protect and maintain wildlife habitat on the Lower Colorado River. Monitoring under this project involves rigorous, quantitative vegetation measurements of riparian habitats

at five project sites within three National Wildlife Refuges (Havasus, Cibola and Bill Williams River), the Palo Verde Ecological Reserve, and the Cibola Valley Conservation Area. Parametrix is responsible for data collection and data management over the 5-year monitoring period. BoR will perform the data analysis, which will be used to evaluate restoration effectiveness, evaluate correlations between vegetation and other (abiotic) site attributes, guide future restoration designs, and identify and implement timely and appropriate adaptive management actions.



Inland Avian Predation Management Plan – Columbia River Basin, WA

Salmon, steelhead, and bull trout along the Columbia River are threatened by avian predators, resulting in impacts to the river's hydro system as documented in a 2008 Biological Opinion by NOAA/NMFS. Parametrix prepared a BA and an EA to collaboratively assist the USACE and partner agencies—Bonneville Power Administration and BoR—in determining methods to protect listed fish from avian predators (such as Cayan Terns) along inland areas of the Columbia River. In addition to supporting the overall management plan, the EA satisfies all NEPA requirements and serves as a decision-making document for determining actions that are environmentally acceptable and economically justified. Other partner agencies involved



are the Columbia River Intertribal Fish Council, Oregon and Washington Departments of Wildlife, USFWS, NOAA, Oregon State University, and Grant County, Washington Public Utility District.

Idaho Forestry Program EIS – ID

Parametrix is responsible for preparing a third-party NEPA EIS for the NMFS and USFWS covering Idaho Department of Lands' (IDL) Idaho Forestry Program. The proposed action is an ESA Section 6 cooperative agreement between IDL, NMFS, and USFWS, covering the conservation of listed fish species affected by the State of Idaho's forest practices rules on state and private lands in the Salmon and Clearwater basins of north-central Idaho. The EIS addresses, at a landscape scale, potential effects of adoption of the program on forest vegetation; land ownership, use, and management; air quality; noise; geology and soils; water resources; plant species of concern, noxious weeds, and wetlands; fish and fish habitat; wildlife and wildlife

habitat; recreation; visual resources; cultural resources; socioeconomics; and environmental justice. Key issues identified included potential impacts of the program on fish species and their habitats, water quantity and quality, management of riparian forests, and the economics of IDL and the forest industry in Idaho. Parametrix led the development of a public involvement strategy, identified issues raised during the public scoping process, developed the analysis approach for the EIS, conducted GIS analyses, and prepared chapters of the Draft EIS. Among other things, the Record of Decision for the project will lead to the issuance of Incidental Take Permits for the listed species of fish covered by the Program.

Flagstone Mining Environmental Analysis – Prescott and Kaibab National Forests, AZ

The flagstone industry on the Prescott and Kaibab National Forests has grown from a few small quarries covering a few acres to the largest ornamental sandstone mining area in the United States covering hundreds of acres. Increases in flagstone production, changes in claim status, and proposals for new mines have increased concerns over the effects of flagstone mining on forest health, ecosystem functions, recreational uses, and execution of Forest Plan management policies. To facilitate future decision-making under NEPA, the purpose of this project was to compile, organize, and document information regarding existing resource conditions, desired conditions, and the cumulative effects of flagstone mining. The description of present conditions and analysis of effects included rare plants, wildlife, fish, hydrology, soils and erosion, water quality, cultural and historical resources, air quality, scenic resources, recreational opportunities, road maintenance and use,

mining operations management, and mine reclamation. Cultural and historical resources were a primary concern and more than 100 archaeological sites were evaluated and described. More than 30 species of special concern were evaluated for regulatory status, habitat in the project area, the role of flagstone mining in present conditions, and compliance with project standards. The USFS Scenery Management System was used to evaluate and update existing classifications and simulations were prepared to illustrate existing conditions and visual changes after mitigation. Management and mitigation strategies were developed for flagstone mining, including developing a guidance document for operations plans, waste minimization, highwall configuration, reclamation plant selection, and protection of cultural resources. Operations Plans and Reclamation Plans were evaluated in detail by a mining engineer.

Montana DNRC HCP EIS – MT

Parametrix provided third-party EIS contractor services for a multi-species HCP and associated EIS. The purpose of the HCP and EIS was to develop conservation measures to protect five federally listed and sensitive species on more than 500,000 acres of forested trust lands within western and central Montana. For the HCP, Parametrix was responsible for preparing detailed species accounts for the original 13 species, support for conservation strategies for the remaining five species, project management, wildlife modeling for grizzly bear and other HCP species, and preparation of the HCP. For the EIS, Parametrix was responsible for assessing the following resources: forest vegetation (subcontractor); threatened, endangered, and sensitive species (plants and animals); noxious weeds;

wetlands; socioeconomics; water resources; geology; road management; cultural and archaeological resources; fisheries and aquatic resources; wildlife; recreation; air quality; and scenery. Deliverables included a scoping report, public meeting PowerPoint presentations, species accounts, HCP, EIS, draft EIS comment analysis, and GIS mapping products. Applicable regulations pertinent to this project included the National Historic Preservation Act, MEPA, Montana Noxious Weed Act, applicable ARM and MCA, NEPA, CWA, CAA, ESA, Natural Streambed and Land Preservation Act, and MWQA, among others. Based on the conservation strategies negotiated for each species, the existing state rules may be amended with the new species strategies.

Aquatic Resources Habitat Conservation Plan EIS – WA

Parametrix is assisting the Washington State Department of Natural Resources (DNR) with the development of an EIS for its Aquatic Resources HCP. The Aquatic Resources HCP is intended to provide incidental take coverage for up to 19 species related to the authorization and operation of seven broad categories of activities that DNR authorizes on 2.4 million acres of state-managed aquatic lands. These lands include the beds and shores of navigable waters, including submerged land in marine, estuarine, and freshwater habitats. Aquatic lands provide habitat for many sensitive or listed species of fish and wildlife. As a result, activities authorized on state-owned aquatic lands have the potential to result in the “take” (as defined under the ESA) of such species. Because of DNR’s proprietary management authority of these lands, it is important for the agency to reduce its liability associated with the ESA. DNR intends to achieve this by developing ESA-response strategies that provide guidance to increase regulatory certainty while reducing risk and costs associated with endangered species



recovery. One of the primary purposes of the project is to ensure that the requirements of both NEPA and the SEPA are met in the process of soliciting internal and external input, developing alternatives, and preparing the EIS. Parametrix is working closely with DNR and the USFWS and NMFS throughout EIS preparation.

SIN 899-7 (RC) Geographic Information Systems (GIS) Services

Parametrix provides full-service GIS support to our clients, with services ranging from data creation and acquisition to analysis and mapping. We provide solutions to environmental analysis problems by creating GIS-based approaches for obtaining reliable and repeatable results and preparing effective map presentations. Our staff design and plan a database for each project. Planning and design involves working with clients and project staff to identify data sources, analyses, and maps necessary for completing a project. We identify and acquire existing data for project use to reduce costs for our clients.

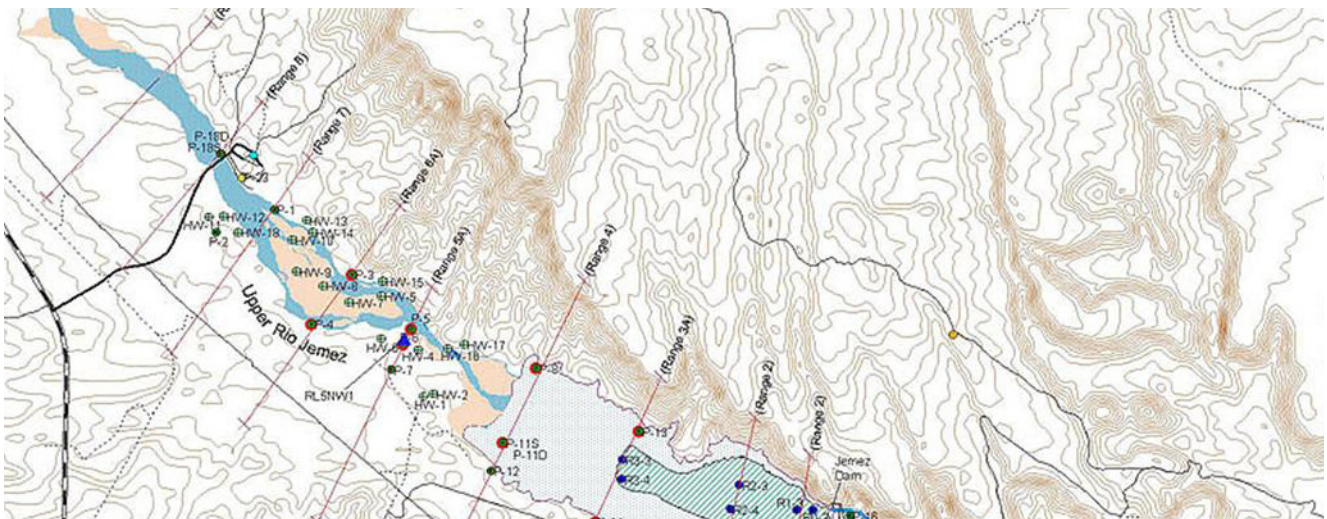
Parametrix staff are also experienced in combining the acquired data sets into a single coordinate system for mapping and analysis. We have extensive experience creating and editing data sets from hardcopy maps, aerial photographs, AutoCAD data, and other sources. Our data creation and editing procedures include documentation and quality assurance/quality control (QA/QC) steps to ensure that our work is traceable and accurate.

Our project experience includes a wide range of analyses for a variety of project types including planning, permitting, monitoring, and mitigation. To ensure that our analyses and results are traceable, repeatable, and documented, we program our analyses using macros. Parametrix has prepared check maps for QA/QC, working maps for field and office staff, document figures, and public display maps. We design maps to be clear and concise, and we easily incorporate customer- or project-specific documents and map/figure formats.

Parametrix uses digital images to provide a base for preparing maps, creating new data sets, or modifying existing data sets. We use several computer-based GIS programs and plotting devices to meet our clients' needs. Our systems are networked to share resources and data among project staff.

Parametrix provides GIS services in support of environmental programs including:

- Cultural resource GIS (CRGIS)
- Environmental cost assessment
- Environmental impact analyses
- Environmental regulatory compliance
- Groundwater monitoring
- Growth forecast modeling
- Habitat conservation plans
- Habitat modeling
- Image analysis support for emergency response
- Mapping, cartography and mashups (e.g., combining data from more than one source into a single integrated tool)
- Migration pattern analysis
- Natural resource planning
- Remote sensing for environmental studies
- Terrestrial, marine, and/or atmospheric measuring/management
- Vegetation mapping
- Watershed characterization for mitigation planning



Project Examples

USFWS GIS Support Services – Western United States

Parametrix is building geo-databases for the USFWS to organize and link existing data for the Middle Rio Grande Basin and several wildlife refuges in the western United States. Data in several different formats is compiled,

standardized, and integrated into a GIS framework that is useable by the USFWS. This enhances the data inventory, allows multi-user access, and ensures compatibility between different sites.

Oregon Statewide Bridges Program, Environmental Approach & Process – OR

ODOT initiated the development of a Mitigation and Conservation Banking Program in 2004. The banking program was created in anticipation of natural resource mitigation needs at over 400 bridge sites resulting from the implementation of the Oregon Transportation Investment Act (OTIA) III Bridge Program and other agency projects. Parametrix developed a multi-resource credit portfolio

accounting toolset for ODOT. This involved designing and coordinating the completion of all GIS applications for development of the mitigation bank sites and quantifying changes at impact sites. Additionally, we directed the design and development of an online accounting database to be used by the program to track debits incurred at impact sites and credits developed at the mitigation banks.

Cumulative Effects Analysis – Oregon Coast

The information presently available for ocean renewable energy project siting in the context of coastal and marine spatial planning is often uncertain, incomplete and evolving. Parametrix has worked with BOEMRE to develop a decision support tool capable of integrating the biological, social, and economic data for assisting evaluation of proposed project sites in data-poor or data-deficient situations. The decision support system is designed for a science-based regulatory environment that requires the use of best available scientific, economic, and social information. It relies on a multi-criteria analysis to

assist federal, state, or regional siting programs with future ocean renewable energy project decisions. The system is designed to integrate oceanographic, ecological, human use data, stakeholder inputs, and cumulative impacts for the evaluation of renewable energy proposals. The final tool is a spatial multi-criteria decision analysis system utilizing Bayesian decision methods and GIS-based data processing. The tool accommodates an unlimited number of inputs, and integrates disparate data on bio-geophysical, social, and infrastructure information and associated uncertainties in an explicit way to assist decision makers.

Abo Canyon Double Track Project – NM

In preparation for a proposed second rail line through Abo Canyon, Parametrix conducted cultural resource investigations, ethnographic interviews, and archival research that focused on the historical uses of the canyon, including transportation corridors, land settlement, agriculture, and the railroad. Parametrix maintains the datasets collected during these investigations and, as needed, provides HDR, BNSF, and others with a variety of spatial and historical documentation. This project is complex and subject to potential litigation. The review process has spanned multiple years and involved 11 federal and state agencies, tribal governments, and private individuals. While the formal review process concluded in December 2007, Parametrix is continuing their mitigation effort on behalf of the BNSF Railway. Some of our on-going efforts include: spatial analysis of homesteading and settlement trends on the eastern plains of New Mexico;



authorship of a book on history of the Belen Cutoff; and, in collaboration with the Pueblo of Acoma, development of curricula focused on native people's past relationships with the railroad.

SIN 899-8 (RC) Remediation and Reclamation Services

The remediation of previous hazardous waste management practices presents a challenge to property owners, developers, and facility operators. Whether the issue is a simple property transfer, cleanup of onsite contamination, or participation in a broader cleanup action, the legal and economic hurdles can often be significant. Parametrix has been a leader in developing creative solutions to hazardous waste problems for many years.

We have supported clients for years to investigate, characterize, and gain closure on a wide variety of contaminated properties ranging from small and localized (such as aboveground or underground storage tanks) to large and complex. Remediation services we provide across a broad spectrum of hazardous waste site types include excavation, removal, treatment, and disposal. Recycling and reuse are also hallmarks of our work on sites where sustainable practices are important aspects in site remediation and redevelopment. We are also often called upon to provide long-term monitoring programs and long-term operations for closed waste sites because these programs provide an important feedback loop on the continued success and degree of success of implemented remedial solutions. For our clients, this includes monitoring of air, landfill gas, groundwater quality, surface water and sediment quality, and contaminant loads in biological tissues.

Services:

- Site characterization and field investigation
- Wetland restoration
- Air monitoring
- Soil vapor extraction
- Stabilization/solidification, bio-venting, carbon absorption, reactive walls, containment, monitoring and/or reduction of hazardous waste sites
- Reclaiming land from sea or riverbeds
- Restoring areas to a more natural state
- Water and refrigerant reclamation

From Phase I environmental site assessments to multi-party Superfund cleanups, Parametrix scientists and engineers work to minimize client liability and cost, expedite cleanups, and develop creative, agency-approved, risk-based, technical solutions to hazardous waste management. Our staff thoroughly understands the regulations that drive and affect remediation and is experienced in groundwater, surface water, soil, sediment, and air remediation.

Project Examples

EPA Region 10 Architect & Engineer On-Call Services

Parametrix is managing a 10-year contract to provide A/E services to support Superfund and Brownfields projects throughout Washington, Idaho, Oregon, and Alaska. Projects have ranged from major mine investigations and remediation to industrial facility monitoring and remediation for sites with complex organics and metals contamination. Best practices have been applied to secure environmentally and economically sound solutions to legacy environmental damages. The following projects are just a few examples of tasks that have been completed under this EPA contract.



Jack Waite Mine Remediation Project – Shoshone County, ID & Sanders County, MT

Parametrix completed archival and oral history research on the abandoned historic Jack Waite Mine and Duthie Town Site, located on the Idaho Panhandle National Forest in the eastern Coeur d'Alene Basin. The site dates from 1890 to 1960 and contains a wide variety of industrial and domestic features. In 2010, Parametrix wrote a mitigation plan and assisted the USFS in negotiating a Memorandum of Agreement (MOA) among the Idaho State Historic Preservation Officer, EPA, and the USFS for the treatment of cultural resources adversely affected by the proposed mine remediation effort at this Superfund site. The mitigation plan was accepted by all consulting parties and is being distributed by the USFS as a template document for similar historic mine clean-up projects in the Coeur d'Alene Basin. Our investigations in 2011 involved reviews of historic newspapers, mine claims, letters, contracts, and photographs—as well as interviews with descendants of miners and other residents of the mine camp of Duthie,



and a few elderly survivors who worked at the mine. The results of this research were summarized in preliminary historic reports and will also inform the archaeological data recovery work, aiding researchers in prioritizing features and structures to be investigated during the data recovery phase.

Portland Harbor RI/FS – Portland, OR

Portland Harbor consists of approximately 6 miles of the Willamette River, from downtown Portland to the Columbia River. This highly industrialized area contains river sediment contaminated with metals (e.g., mercury), pesticides and herbicides, and other toxic substances, and was listed as a federal Superfund site in December 2000. Parametrix has been assisting EPA with preparation of the overall RI/FS for the Harbor, which is being performed by potentially

responsible parties (PRPs). Services provided include oversight of field investigations performed by the PRPs, ecological risk assessment technical development support, environmental fate modeling, programmatic schedule maintenance, and project facilitation support. Parametrix is also providing scientific and engineering support to the EPA at several early action (cleanup) sites in the harbor.

Pier B Expansion – Puget Sound Naval Shipyard, WA

Parametrix provided environmental support for demolition and removal of an existing 1,700-foot pier and reconstruction of a new air craft carrier pier. Due to heavy metals in the mud sediment within the area of the piers, the existing pilings could not be removed. Therefore, the existing pilings needed to be located, cut at the mudline, and new pilings installed just a few feet from the existing locations. Parametrix performed asbestos surveys,

occasional lead paint sampling, occupational exposure and environmental air monitoring, noise monitoring for pile driving activities, and soil sampling for waste characterization, as well as 3D laser scanning and surveying to accurately locate the existing 900-plus pilings. Parametrix also secured Kitsap County Health District and PSNS approval for a creative soil recycling practice at an offsite quarry location to cut the cost of offsite disposal.

Keyport Lagoon Mitigation Project – Silverdale, WA

The habitat enhancement project at Keyport Lagoon mitigates adverse effects from construction of a new pier at the Puget Sound Naval Shipyard. The project reclaims tidal areas and restores the habitat structure and function of the 24-acre brackish lagoon back to those of a Puget Sound tidal marsh habitat. To support these efforts, Parametrix

provided topographic mapping of the entire lagoon area along with bathymetric offshore survey adjacent to the lagoon. We used GIS mapping to prepare design drawings, develop hydrographic flow analysis, and to track sediment flows.

Building Demolition – Puget Sound Naval Shipyard, WA

As part of a larger development project, the Navy required the demolition and site restoration of two buildings (407 and 447) and the demolition of three additional portable units (876, 937, and 975). The disconnection and termination of electrical and communication utilities were required at four of the five buildings (407, 447, 876, and 975). Hazardous material removal was required at all five sites. To facilitate the safe completion of these objectives, Parametrix provided a Comprehensive Hazardous Materials

Investigation Report prepared by a certified in-house AHERA Building Inspector and State of Washington accredited Lead Inspector/Risk Assessor. The investigation included an Asbestos Survey Report, a Sample Analysis and Collection Methods for Total Metals and Leachable Metals, a Quality Assurance Project Plan for Hazardous Materials and Encountered Waste Survey, which were compiled in a comprehensive, site-specific Health and Safety Plan for the handling of hazardous materials.

Asarco Smelter Site Restoration – Tacoma, WA

The remediation and redevelopment of this former smelter site along Commencement Bay provides a direct benefit to the natural environment and the surrounding community. For over 20 years, Parametrix has partnered with Asarco to develop site cleanup and redevelopment plans for this Superfund site. For example, we worked with regulators to develop a cost-effective way to remediate contaminated sediments located off-shore of the site. Our approach involved the construction and monitoring of an innovative sediment cap that saved millions of dollars compared to more conventional capping methods. The 2-acre sediment cap was conducted as a pilot study. Several years of monitoring data indicates that the sediment cap is performing as expected and aquatic species are flourishing. In addition, we designed and secured required regulatory



approvals to stabilize more than 1 mile of shoreline, install 20 acres of nearshore sediment cap, and dredge the Tacoma Yacht Club basin; and remove three large piers that covered 1.6 acres of marine habitat.

West Bay Park Marine Shoreline Remediation – Olympia, WA

Parametrix assisted the City of Olympia Parks Department with environmental due diligence activities for acquisition of industrial property along Budd Inlet on West Bay Drive. The City is developing this property into a premier waterfront park and walking trail. Activities included Phase I and Phase II Environmental Site Assessments to test soils, groundwater, and shoreline sediments for the presence of industrial pollutants including dioxins, polycyclic aromatic hydrocarbons, heavy metals, and petroleum hydrocarbons. Activities also included implementation of a remedial investigation and feasibility study for selection of a remedial alternative for cleanup of contaminated soils and groundwater at the site. Based on the feasibility study, soil excavation, capping, and in situ treatment of groundwater were selected as preferred options for cleanup of petroleum

hydrocarbons. The cleanup also involved removal of dock piling structures located along the shoreline. Parametrix provided design and construction services for the remediation. Construction plans and permits were successfully coordinated with park development to allow the park and walking trail to proceed on schedule and within budget. Parametrix worked with a number of different stakeholders including Ecology, Washington State DNR, railroad companies, local interest groups during the planning and construction of this project. We also assisted the City with negotiating an Agreed Order with Ecology and securing a matching grant for the remediation costs.

Labor Categories and Hourly Prices

Labor Category	OPTION 2 (Including IFF, Escalation)				
	Year 11 2012	Year 12 2013	Year 13 2014	Year 14 2015	Year 15 2016
	10/2012-10/2013	10/2013-10/2014	10/2014-10/2015	10/2015-10/2016	10/2016-10/2017
Air Quality Specialist	160.63	165.12	169.75	174.50	179.38
Botanist/Wetlands Biologist, Senior	127.41	130.98	134.65	138.42	142.29
CADD Operator *	84.38	86.74	89.17	91.67	94.23
CADD Operator, Senior *	107.35	110.36	113.45	116.63	119.89
Civil Engineer, Senior	184.03	189.19	194.48	199.93	205.53
Digitizer	98.13	100.88	103.71	106.61	109.59
Ecologist, Senior	154.24	158.56	163.00	167.56	172.26
Fisheries Biologist, Senior	158.12	162.55	167.10	171.78	176.59
Geologist, Senior	133.72	137.46	141.31	145.27	149.34
GIS Project Manager	181.54	186.63	191.85	197.23	202.75
GIS Specialist	120.31	123.68	127.14	130.70	134.36
Graphic Artist	107.58	110.59	113.69	116.87	120.14
Heritage Resources Specialist, Senior	106.17	109.14	112.20	115.34	118.57
Hydrologist, Senior	150.01	154.21	158.52	162.96	167.53
Landscape Architect, Senior	144.04	148.08	152.22	156.48	160.87
Planner, Associate	109.51	112.58	115.73	118.97	122.30
Planner, Senior	158.63	163.07	167.64	172.33	177.16
Project Coordinator	88.62	91.11	93.66	96.28	98.97
Project Manager	194.52	199.96	205.56	211.32	217.24
Public Involvement Specialist, Senior	182.82	187.94	193.20	198.61	204.17
Recreation Specialist, Senior	158.63	163.07	167.64	172.33	177.16
Remote Sensing Analyst	125.97	129.50	133.12	136.85	140.68
Scientist, Associate *	120.31	123.68	127.14	130.70	134.36
Socioeconomist, Senior	165.09	169.71	174.46	179.35	184.37
Soil Scientist, Senior	166.49	171.16	175.95	180.88	185.94
Surveyor *	98.64	101.40	104.24	107.16	110.16
Surveyor, Senior *	134.24	137.99	141.86	145.83	149.91
Technical Aid *	71.25	73.25	75.30	77.40	79.57
Tech Consultant, Senior	232.54	239.06	245.75	252.63	259.70
Water Quality Specialist, Senior	194.52	199.96	205.56	211.32	217.24
Wildlife Biologist, Senior	142.55	146.54	150.65	154.87	159.20
Word Processor *	71.80	73.81	75.87	78.00	80.18
Writer/Editor	155.42	159.78	164.25	168.85	173.58

* SCA Eligible Labor Categories identified above are based upon the Labor Wage Determination areas where the majority of Parametrix SCA eligible staff are located. Prices offered may be discounted if work is performed in an area which results in a lower wage. See Labor Category Descriptions for further details.

GSA Awarded Labor Category Descriptions

Labor Category	Education/Experience	Responsibilities
Air Quality Specialist	Bachelor's degree and 5 to 8 years related experience	Provides technical engineering support and guidance, designs complex structures, reviews calculations for projects, analyzes data, and makes recommendations for changes and improvements where needed.
Botanist/ Wetland Biologist, Senior	Master's degree in related field and 5 years experience; or bachelors degree and 8 years experience	Independently evaluates, selects, and applies various scientific procedures. Develops and performs scientific investigations including analyzing and interpreting trends and patterns for which established precedents and/or standards may not exist. Prepares botanical reports including biological assessments, evaluations, and weed management plans. Provides technical guidance to staff and clients in interpreting and monitoring compliance with regulatory requirements and industry guidelines. Serves as formal reviewer of technical documents ensuring their accuracy and completeness.
CADD Operator*	Associate's degree or equivalent from 2-year college or technical school and 7 or more years experience and/or training; or equivalent combination of education and experience	Responsible for preparing moderately complex drawings and revisions within a given discipline in accordance with established manual and CADD procedures to communicate engineering ideas, designs and information. Exercises some independent judgment on detail of work. Receives close supervision on new aspects of assignments. Learns and develops new skills while assisting experienced CADD Operators.
CADD Operator, Senior*	Associate's degree or equivalent from 2-year college or technical school and 7 or more years experience and/or training; or equivalent combination of education and experience	Responsible for preparing complex drawings and revisions, as well as reviewing all drawings and revisions, within a given discipline in accordance with established manual and CADD procedures to communicate engineering ideas, designs and information. Provides technical support and guidance to other CADD operators and technical staff. Ensures drawings of staff are accurate. Exercises independent judgment on detail of work.
Civil Engineer, Senior	Master's degree in related field and 5 years experience; or bachelors degree and 8 years experience	Designs complex structures and reviews the designs of other engineers to assure specified engineering requirements. Provides technical support and guidance in field of expertise to engineers and clients. Inspects and evaluates location data to assure conditions, structures, and/or facilities on site are fully disclosed and accounted for in drawings and resulting plans. Reviews calculations for projects, analyzes data, and makes recommendations for changes and improvements where needed.
Digitizer	Bachelors degree in related field and 1 year experience; or community college GIS certification and 1 year experience	Assists in identifying and gathering maps to be digitized and preparing data files into which the digitized data will be stored. Within minimal supervision, prepares maps for digitizing and completes digitizing, data entry, and data review.

Labor Category	Education/Experience	Responsibilities
Ecologist, Senior	Master's degree in related field and 5 years experience; or bachelors degree and 8 years experience	Independently evaluates, selects, and applies various scientific procedures. Develops and performs scientific investigation including analyzing and interpreting trends and patterns ecological and landscape studies. Provides technical guidance to staff and clients in interpreting and monitoring compliance with regulatory requirements and industry guidelines. Serves as formal reviewer of technical documents ensuring their accuracy and completeness.
Fisheries Biologist, Senior	Master's degree in related field and 5 years experience; or bachelors degree and 8 years experience	Independently evaluates, selects, and applies various scientific procedures pertaining to field reconnaissance, investigations, statistical analysis, and report preparation. Develops and performs scientific investigation including analyzing and interpreting trends and patterns for which established precedents and/or standards may not exist. Provides technical guidance to staff and clients in interpreting and monitoring compliance with regulatory requirements and industry guidelines, including the ESA. Serves as formal reviewer of technical documents ensuring their accuracy and completeness.
Geologist, Senior	Master's degree in related field and 5 years experience; or bachelors degree and 8 years experience	Independently evaluates, selects, and applies various scientific procedures. Develops and performs geologic investigations including analyzing and interpreting trends and patterns for which established precedents and/or standards may not exist. Provides technical guidance to staff and clients in interpreting and monitoring compliance with regulatory requirements and industry guidelines. Serves as formal reviewer of technical documents ensuring their accuracy and completeness.
GIS Project Manager	Masters degree in related field and 5 years experience; or bachelors degree and 8 years experience	Acts as the primary interface with clients and overall project managers to ensure GIS services are meeting their needs and expectations. Proactively interacts with project staff to assist them with technical methods, technical review, preparing and editing documentation, and meeting high quality control standards. Uses professional judgment and specialized technical expertise to perform various GIS activities and develop methods to execute complex GIS tasks. Reviews technical review of GIS efforts and documentation to ensure accuracy and completeness. Responsible for completing GIS efforts on time and on budget.
GIS Specialist	Bachelors degree in related field and 5 years experience	Designs and performs complex GIS-based data gathering and integration, data development, mapping, and analysis tasks. Provides technical support and guidance to engineers, planners, scientists, and clients regarding the use of GIS and GIS-based data to meet project-specific needs. Identifies and gathers available GIS data for project use. Works with client GIS staff to obtain existing GIS data and determine client needs and specifications.
Graphic Artist	Associates degree in art or graphic design and 3 years experience	Guides design and production of reports, collateral, presentations, and other project tools. Ensures that all work is produced within acceptable guidelines of the goals and mission of the company and client.

Labor Category	Education/Experience	Responsibilities
Hydrologist, Senior	Master's degree in related field and 5 years experience; or bachelors degree and 8 years experience	Independently evaluates, selects, and applies various scientific procedures. Develops and performs hydraulic and hydrologic investigations including analyzing and interpreting trends and patterns for which established precedents and/or standards may not exist. Experience in the use and interpretation of hydrologic modeling. Provides technical guidance to staff and clients in interpreting and monitoring compliance with regulatory requirements and industry guidelines. Serves as formal reviewer of technical documents ensuring their accuracy and completeness.
Landscape Architect, Senior	Master's degree in related field and 5 years experience; or bachelors degree and 8 years experience	Independently evaluates, selects, and applies various landscape planning and design concepts and strategies. Provides technical guidance to staff and clients in interpreting and monitoring compliance with regulatory requirements and industry guidelines. Serves as formal reviewer of technical documents ensuring their accuracy and completeness.
Planner, Associate	Bachelors degree in planning and 3 years experience	Assists in writing/preparation of reports; gathers information and/or observes existing conditions through field study; conducts research on a variety of planning topics; analyzes and prepares permit applications; assists in providing recommendations based on data analyses, established precedents and standards, and existing technical expertise.
Planner, Senior	Master's degree in related field and 5 years experience; or bachelors degree and 8 years experience	Performs and directs planning studies through application of standard and innovative techniques, procedures, and criteria. Independently evaluates, selects, and applies various planning procedures. Develops and performs planning investigations including analyzing and interpreting trends and patterns for which established precedents and/or standards may not exist. Serves as formal reviewer of technical documents ensuring their accuracy and completeness.
Project Coordinator	High school graduate or equivalent and 5 to 7 years related experience and/or training; or equivalent combination of education and experience	Under general supervision, performs a variety of difficult and complex administrative tasks in support of division/project/task managers and project teams. Positions work with specific groups, managers, divisions, project teams, and/or support staff to coordinate administrative and project-related functions.
Project Manager	Bachelor or master's degree in sciences, engineering, or planning with 10+ years experience	Acts as the primary interface with clients to ensure project services are meeting their needs and expectations. Proactively interacts with the projects team with technical methods, client interaction, preparing and editing reports, and maintaining high quality control standards. Uses professional judgment and specialized technical expertise to perform various studies and analyses and to solve various complex technical issues. Serves as formal reviewer of technical documents ensuring their accuracy and completeness. Ensures products are delivered on time and on schedule.

Labor Category	Education/Experience	Responsibilities
Public Involvement Specialist, Senior	Master's degree in related field and 5 years experience; or bachelors degree and 8 years experience	Independently evaluates, develops, selects, and applies community involvement and facilitation strategies. Provides technical guidance to staff and clients in interpreting project and community needs.
Recreation Specialist, Senior	Master's degree in related field and 5 years experience; or bachelors degree and 8 years experience	Performs and directs recreational planning studies through application of standard and innovative techniques, procedures, and criteria. Independently evaluates, selects, and applies various recreational planning procedures. Develops and performs recreational planning investigations including analyzing and interpreting trends and patterns for which established precedents and/or standards may not exist. Serves as formal review of technical documents ensuring their accuracy and completeness.
Remote Sensing Analyst	Bachelors degree in related field and 2 years experience	Determines data needs, identifies appropriate data and any limitations, determines appropriate methodology, and performs remote sensing activities. Prepares documentation to summarize data used, data quality, methodology, and results.
Scientist, Associate*	Bachelors degree in related scientific field and 3 years experience	Assists in gathering, compiling, and analyzing scientific data. Operates specialty equipment in the field. Assists in providing scientific recommendations based on data analyses, established precedents and standards, and existing technical expertise. Prepares reports and assists in reviewing technical documents.
Socioeconomist, Senior	Master's degree in related field and 5 years experience; or bachelors degree and 8 years experience	Performs and directs socioeconomic studies through application of standard and innovative techniques, procedures, and criteria. Independently evaluates, selects, and applies various planning procedures. Develops and performs planning investigation including analyzing and interpreting trends and patterns for which established precedents and/or standards may not exist. Serves as formal reviewer of technical documents ensuring their accuracy and completeness.
Soil Scientist, Senior	Master's degree in related field and 5 years experience; or bachelors degree and 8 years experience	Independently evaluates, selects, and applies various scientific procedures. Develops and performs scientific investigation including analyzing and interpreting trends and patterns for which established precedents and/or standards may not exist. Provides technical guidance to staff and clients in interpreting and monitoring compliance with regulatory requirements and industry guidelines. Serves as formal reviewer of technical documents ensuring their accuracy and completeness.
Surveyor*	Associate's degree or equivalent from 2-year college or technical school and 3 or more years related experience and/or training; or equivalent combination of education and experience	Responsible for providing daily surveying of moderately complex to complex assignments while applying sound survey principles and practices. Exercises some independent judgment on details of work. Receives instruction on specific assignment objectives, complex features, and possible solutions. Maintains and operates all instruments and measuring devices needed to complete various types of survey work assignments.

Labor Category	Education/Experience	Responsibilities
Surveyor, Senior*	Associate's degree or equivalent from 2-year college or technical school and 7 or more years related experience and/or training; or equivalent combination of education and experience	Assumes responsibility for planning and performing site surveys including directing activities of survey crew. Develops cost estimates and proposals for survey activities. Provides technical support and guidance to other surveyors. Reviews survey department and project manager requests and coordinates with field crew schedules. Exhibits effective communication and coordination with clients and the public. Exercises independent judgment on details of work.
Technical Aide*	High school graduate or equivalent and 3 or more years related experience and/or training; or equivalent combination	Under general supervision, performs a variety of routine administrative tasks following detailed instructions and established procedures in support of division/project/task managers and project teams. Assists in the development of technical documents, budget and data spreadsheets, specifications, proposals, and client presentations.
Technical Consultant, Senior	Bachelor's degree (master's degree preferred) and 10+ years related experience and/or training; or equivalent combination of education and experience	Plans, conducts and supervises projects of major significance, necessitating proven management skills and knowledge. Supplies technical advice and counsel to other professionals; must demonstrate ability to originate and apply new and/or unique methods, approaches and procedures.
Water Quality Specialist, Senior	Master's degree in related field and 5 years experience; or bachelors degree and 8 years experience	Independently evaluates, selects, and applies various scientific procedures. Develops and performs hydraulic and hydrologic investigations including analyzing and interpreting trends and patterns for which established precedents and/or standards may not exist. Provides technical guidance to staff and clients in interpreting and monitoring compliance with regulatory requirements and industry guidelines. Serves as formal reviewer of technical documents ensuring their accuracy and completeness.
Wildlife Biologist, Senior	Master's degree in related field and 5 years experience; or bachelors degree and 8 years experience	Independently evaluates, selects, and applies various scientific procedures. Develops and performs scientific investigation including analyzing and interpreting trends and patterns for which established precedents and/or standards may not exist. Provides technical guidance to staff and clients in interpreting and monitoring compliance with regulatory requirements and industry guidelines. Serves as formal reviewer of technical documents ensuring their accuracy and completeness.
Word Processor*	High school graduate or equivalent and 3 or more years related experience and/or training; or equivalent combination	Under general supervision, performs a variety of increasingly complex word processing tasks and assignments in support of word processing needs. Proficient in computer software skills necessary to transcribe, format, edit, and publish documents.
Writer/Editor	Bachelor's degree in English or related field with 3 or more years experience	Provides technical editing on documents including, but not limited to correspondence, resumes, graphic materials, newsletters, and various technical reports and agency documents. Proofreads and assembles material. Provides recommendations for the structural, grammatical, and organizational improvement of documents.

***SCA Eligible Labor Categories** are identified below and premised upon the Labor Wage Determination areas in which the majority of Parametrix SCA eligible staff are located. Prices offered meet or exceed those identified in SCA Wage Determination No. 2005-2567 (Rev. 15 dated 06/13/2011) and No. 2005-2563 (Rev. 13 dated 06/13/2011). Rates include escalation based upon the escalation clause identified in contract GS10F0013N, and may be discounted if work is performed in an area which results in a lower wage.

SCA Eligible Labor Category	SCA Equivalent Code	WD Number
CADD Operator	30062 DRAFTER/CAD OPERATOR II 30063 DRAFTER/CAD OPERATOR III	05-5667 (Rev 15) 05-2563 (Rev 13)
CADD Operator, Senior	30063 DRAFTER/CAD OPERATOR III	05-5667 (Rev 15) 05-2563 (Rev 13)
Scientist, Associate	30090 ENVIRONMENTAL TECHNICIAN	05-5667 (Rev 15) 05-2563 (Rev 13)
Surveyor	99832 SURVEY TECHNICIAN	05-5667 (Rev 15) 05-2563 (Rev 13)
Surveyor, Senior	99830 SURVEY PARTY CHIEF	05-5667 (Rev 15) 05-2563 (Rev 13)
Technical Aid	01112 GENERAL CLERK II 01113 GENERAL CLERK III	05-5667 (Rev 15) 05-2563 (Rev 13)
Word Processing	01612 WORD PROCESSOR II 01613 WORD PROCESSOR III	05-5667 (Rev 15) 05-2563 (Rev 13)

Parametrix
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